

Claims

1. A joinery bogey for a multi-fold joinery leaf assembly having a plurality of joinery leaves provided in a frame, the joinery bogey including:
 - 5 a body adapted to travel along a track mounted on the frame;
 - a pivot mount provided on the body for a pivot connection between the body and at least one of the leaves, the at least one leaf having a moveable edge proximal to the bogey, the moveable edge being provided adjacent to a frame seal for a head or sill of the frame when the at least one leaf is in a closed position, and the pivot connection being located so that the moveable edge has a component of movement away from the frame upon initiation of opening of the at least one leaf.
- 15 2. A joinery bogey as claimed in claim 1 including a wall segment provided on the body for location adjacent to the frame seal, and the at least one leaf being disposed about a periphery of the wall segment when the at least one leaf is in the closed position, the moveable edge comprising a part of the periphery.
- 20 3. A joinery bogey as claimed in claim 2 wherein the bogey is pivotally connected to the at least one leaf and regions of the leaf adjacent to the periphery of the wall segment are contoured or recessed such that the wall is substantially accommodated by the leaf when the leaf is in the closed position so that a substantially continuous planar surface is provided adjacent to the frame seal.
- 25 4. A joinery bogey as claimed in claim 2 or claim 3 wherein the wall segment has at least one vertical side and the moveable edge is provided adjacent to one of the vertical sides, the vertical side being horizontally displaced from the pivot connection.
- 30 5. A joinery bogey as claimed in any one of claims 2 to 4 wherein the wall segment includes two horizontal sides, one horizontal side being disposed above the level of the frame seal and the other horizontal side being disposed below the level of the frame seal.

6. A joinery bogey as claimed in any one of the preceding claims wherein the movement of the moveable edge away from the frame upon initiation of opening of the at least one leaf substantially prevents scrubbing between the moveable edge and the frame seal.

5

7. A joinery bogey as claimed in any one of the preceding claims wherein the moveable edge comprises at least part of a seal provided on the at least one leaf.

10

8. A joinery bogey as claimed in any one of the preceding claims in which the body includes one or more wheels which may rotate through an arc of movement in a plane perpendicular to the direction of travel of the bogey unit along the frame.

15

9. A multi-fold, joinery leaf assembly having two or more door or window leaves pivotally connected together about a vertical axis, a bogey unit pivotally connected to at least one of the leaves about a vertical axis and being adapted to travel along a track mounted on a frame, the at least one leaf having a moveable edge proximal to the bogey, the moveable edge being provided adjacent to a frame seal for a head or sill of the frame when the at least one leaf is in a closed position, and the pivot connection being located so that the moveable edge has a component of movement away from the frame upon initiation of opening of the at least one leaf.

20

25

10. An assembly as claimed in claim 9 wherein the bogey unit is provided with a wall segment for location adjacent to the frame seal, and the at least one leaf is disposed about a periphery of the wall segment when the at least one leaf is in the closed position, the moveable edge comprising a part of the periphery.

30

11. An assembly as claimed in claim 10 wherein regions of the at least one leaf adjacent to the periphery of the wall segment are contoured or recessed such that the wall is substantially accommodated by the leaf when the leaf is in the closed position so that a substantially continuous planar surface is provided adjacent to the frame seal.

35

12. An assembly as claimed in claim 10 or claim 11 wherein the wall segment has at least one vertical side and the moveable edge is provided adjacent to one of the vertical sides, the vertical side being horizontally displaced from the pivot connection between the bogey and the at least one leaf.

5

13. An assembly as claimed in any one of claims 10 to 12 wherein the wall segment includes two horizontal sides, one horizontal side being disposed above the level of the frame seal and the other horizontal side being disposed below the level of the frame seal.

10

14. An assembly as claimed in any one of claims 9 to 13 wherein the track is provided in a sill of the frame and the at least one leaf is provided directly over the track.

15

15. An assembly as claimed in any one of claims 9 to 14 wherein the bogey unit includes the pivot connection, and the bogey unit further includes one or more stile or rail engaging arms which connect the bogey unit to a stile or rail of the at least one leaf.

20

16. An assembly as claimed in any one of claims 9 to 15 comprising a plurality of extruded components.

25

17. An assembly as claimed in any one of claims 9 to 16 wherein the track is replaceable in the frame.

18. An assembly as claimed in any one of claims 9 to 17 wherein wherein the movement of the moveable edge away from the frame upon initiation of opening of the at least one leaf substantially prevents scrubbing between the moveable edge and the frame seal.

30

19. An assembly as claimed in any one of claims 9 to 18 wherein the moveable edge comprises at least part of a seal provided on the at least one leaf.

35

20. An assembly as claimed in any one of claims 9 to 19 in which the bogey unit includes one or more wheels which may rotate through an arc of movement in a plane perpendicular to the direction of travel of the bogey unit along the frame.

5

21. A joinery bogey for a multi-fold joinery leaf assembly, the bogey unit including:
a track movement means to allow the bogey to move along a track;
10 a pivot assembly pivotally connecting one or more stile or rail engaging arm to the bogey unit, each stile or rail engaging arm being adapted to be attached to a stile or rail of a joinery leaf.

22. A joinery bogey as claimed in claim 21 wherein a further stile or rail engaging arm is pivotally connected to the bogey unit by the pivot assembly.

15

23. A joinery bogey as claimed in claim 21 or claim 22 wherein the stile or rail engaging arm is adapted to be attached to the stile or rail of a leaf by being received within a cavity provided in the stile or rail.

20

24. A track assembly for a multi-fold joinery leaf installation having an extruded frame member with a recess adapted to receive a track, the track being insertable and removable to and from the recess and having at least one wall defining a central cavity and two edges, at least one of the edges being adapted to support a bogey unit.

25

25. A track assembly as claimed in claim 24 wherein the at least one edge includes a lip or bead providing a substantially convex surface.

30

26. A track assembly as claimed in claim 24 or claim 25 wherein the track includes a coating to reduce wear.

27. A track assembly as claimed in claim 24 or claim 25 wherein the track is formed from a different material than the frame.

28. A track assembly as claimed in any one of claims 22 to 27 wherein the frame member is formed from aluminium and the track is formed from stainless steel.

5 29. A track assembly as claimed in any one of claims 24 to 28 wherein the cavity is adapted to accommodate a guide member dependent from the bogey unit.

10 30. A track assembly as claimed in any one of claims 24 to 29 wherein the bogey unit is provided clear of a base of the cavity so that the cavity in use allows particulate matter to fall therein so as to prevent the particulate matter from interfering with movement of the bogey unit along the track.

15 31. A kit of parts for providing a construction as claimed in any one of the foregoing claims.

32. A joinery bogey substantially as herein described with reference to any one of the examples and the accompanying drawings.

20 33. A multi-fold, joinery leaf assembly substantially as herein described with reference to any one of the examples and the accompanying drawings.

25 34. A track assembly for a multi-fold joinery leaf installation substantially as herein described with reference to any one of the examples and the accompanying drawings.